## **EAST Search History**

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	"10598135"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2011/11/21 16:16
12	5355	[210/512.1,513,519,521 cds. 166/105.5,357.cds.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2011/11/21 16:19
 L4	1801	2 and (tangential spiral vortex vortical centrifuge centrifigual)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OΝ	2011/11/21 16:20
L5	2005	2 and (tangential spiral vortex vortical centrifuge centrifigual cyclone cyclonic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	OΝ	2011/11/21 16:20
.6	5	(*1400622*).UFPN.	USPAT	OR	ON	2011/11/21 16:23
.7	4	("2007/0138085").URP\L	USPAT	OR	ON	2011/11/21 19:16
.12	224	b01d21/26 ipc. b01d33/15 ipc. b01d33/27 ipc. e21b43/00 ipc.	FPRS; EPO; JPO; DERWENT	OR	OΝ	2011/11/21 19:53
 31	2	"4626237",pn.	US PCPUB; USPAT; USOCR, FPRS; EPO; JPO; DERWENT	OR	ON	2009/05/06 12:29
ž2	25	("0355050"   "1712184"   "1782467"   "2067590"   "2800493"   "3860167"   "4378285").PN. OR ("4626237").URPN.	US-PGPUB; USPAT; USOCR	OR	OΝ	2009/05/06 12:30
35	1910	494/37,44,25,31.cds.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2009/05/06 13:27

96 57 58	279	SS and sensor	ius ropue; iuspat; iusoor; fpps; feto. (Po; derwent	OR	ON	2009/05/06 13:27
57	17	(SS and (level adj sensor)	US PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT	OR	ON	2009/05/06 13:27
8	2	"5248421" pn.	jus Popub; juspat; juspor; ffps; jed; jpo; joerwient	OR	ON	2009/05/06 13:40
9	3	"7314559" pn.	jus Papub; juspat; juspot; fiprs; jepo; jpo; joerwibut	OR	ON	2009/05/06 14:10
310	1	"10698135"	jus Papub; juspat; juspor; ffrs; jepo; jpo; joerwient	OR	ON	2009/05/06 14:15
311	10	"1352679"	(US PGPUB; USPAT; USOOR; FFRS; EPO; JPO; (DERWENT	OR	ON	2009/05/26 15:04
112	1692	210/782,784,781,788 ads.	US PGPUB; USPAT; USOOR, FFRS; EPO; JPO; DERWENT	OR	ON	2009/05/26 15:07
313	980	(S12 and well	US PGPUB; USPAT; USOOR; FFRS; EPO; JPO; DERWENT	OR	ON	2009/05/26 15:07
514	292	S13 and oil	jus ropub; juspat; juspat; juspor, ffrs; jed; jpo; joerwent	OR	ON	2009/05/26 15:07
ši5	2930	210/512.1,512.2,513.ods.	(US PGPUB; USPAT; USOOR; FFRS; (EPO; JPO; (DERWENT	OR	ON	2009/05/26 15:32

\$16	1372	(S15 and well	US-PCPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2009/05/26 15:32
317	542	(S16 and oil	US PCPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2009/05/26 15:32
318	1	("2007/0138085").UFPN.	USPAT	OR	OΝ	2009/05/26 15:48
319	4	("3543846"   "4438817"   "6068053").PN. OR ("7520989").UFPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/26 15:52
20	31	("363366"   "3777812"   "3877520"   "3881549"   "3987638"   "4096295"   "4120362"   "4192383"   "4194857"   "4286665"). PN. OR ("4438817"). URPN.	US-PGPUB; USPAT; USOCR	OR	OΝ	2009/05/26 15:53
24	31	("363366"   "3777812"   "3877520"   "3881549"   "3987638"   "4096295"   "4120362"   "4192383"   "4194857"   "4286665"). PN. OR ("4438817"). URPN.	US-PGPUB; USPAT; USOCR	OR	ΟN	2009/05/28 15:59
 226	13	(subsea adj well) and (reinjection)	US PCPUB; USPAT; USOCR, FFRS; EPO, JPO; DERWENT	OR	ON	2009/05/28 16:10
27	34	"4830865"	US PCPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2010/05/11 15:58
28	4837	210/512.1,512.2,513,787,788,800.cds.	US PCPUB; USPAT; USOCR; FFRS; EPO; JPO; DERWENT	OR	ON	2011/07/27 16:44
29	756	S28 and spiral	US PCPUB; USPAT; USOCR, FFRS; EPO; JPO; DERWENT	OR	ON	2011/07/27 16:44
330	1	"10598135"	US PCPUB; USPAT; USOCR; FFRS; EPO; JPO; DERWENT	OR	ON	2011/07/27 16:47
331	4	(°2007/0138085°).URPN.	USPAT	OR	OΝ	2011/07/27 16:47

S32	52	{("20030150731"  "20040059494"  "20040099422"  "20040200620"  "20040200621"  "20040244983"    "20040245182"  "20040251030"  "20050061514"  "20050109514"  "20050173322"  "20060124313"    "20070138085"  "2953204"  "3718407"  "4134456"  "4438917"  "4705114" "4805697"  "482447"  "4848471"	US-PGPUB; USPAT; USOCR	OR	ON	2011/07/27 16:48
	***************************************	2506153"   "5335732"   "5730971"   "5813469"   "6068053"   "6082452"   "6089317"   "6092599"   "6092600"   "6131655"   "6138756"   "6188614"   "6196310"   "619905"   "6209641"   "635604"   "6457522"   "6607514"   "6640901"   "6651745"   "6968902"   "7013978"   "703961"   "7111687"   "7134498"   "7152681"   "7152682"   "7175748"   "7363982"   "7520999")	usch			
33	2	(°2005'0061514°).URPN.	USPAT	OR	ON	2011/07/27 16:51
36	2	*7194498*;pn.	US-PGPUB; USPAT; USOCR, FPRS; EPO; JPO; DERWENT	OR	ON	2011/07/27 16:51
37	24	["20020007968"   "20030062198"   "20040031622"   "3543846"   "3545215"   "4175039"   "4527632"   "4956436"   "5004051"   "6062313"   "6129152"   "6216799"   "6269880"   "6276455"   "6325159"   "6328118"   "6527054"   "6578637"). PN. OR ("7134498").URPN.	US PGPUB; USPAT; USOCR	OR	ON	2011/07/27 16:52
38	15	("3346117"   "3951813"   "5004552").FN. OR ("5248421").URPN	US PGPUB; USPAT; USOCR	OR	ON	2011/07/27 16:57
39	20	("1021689"   "3346117"   "3756658"   "3875061"   "3951813"   "4116790"   "4179273"   "4241787"   "4343707"   "4414112"   "4531584"   "4857197"), PN. OR ("5004552"), URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/07/27 16:58
40	20	{"2673616"   "2793186"   "279945"   "3067878"   "3718257"   "3912533"   "4048069"   "4122016"   "4425239"   "5013435"   "5032273"   "5089136"   "5248421"   "5340470"   "5605636"),PN. OR ("5900149"),URPN.	US PGPUB; USPAT; USOCR	OR	ON	2011/07/27 16:58
X	101	("2281801"   "2523091"   "2692051"   "2946387"   "3066732"   "3167125"   "3195633"   "3375666"   "4014387").FN. OR ("4241787").UPPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/07/27 17:04
42	20	("1021689"   "3346117"   "3768658"   "3875061"   "3951813"   "4116790"   "4179273"   "4241787"   "4343707"   "4414112"   "4531584"   "4857197"), FN. OR ("5004552"), URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/07/28 11:26
43	15	("3346117"   "3951813"   "5004552").PAL OR ("5248421").URPAL	US-PGPUB; USPAT; USOCR	OR	ON	2011/07/28 11:28
44	10	("3282030"   "3318073"   "3414248"   "4120673").PN. OR ("4162147").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/07/28 11:41
46	2	("3318073").UFPN.	USPAT	OR	ON	2011/07/28 12:00
47	186	166/357.ads.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2011/07/28 12:15
S48	484	166/105.5.cds.	US-PGPUB; USPAT; USOCR; FFRS; EPO; JPO; DERWENT	OR	ON	2011/07/28 12:16

S50	37	("20030146523"   "20050173335"   "200600001111"   "20060249439"   "20090120850"   "2910424"   "3971718"   "42054381"   "4206995"   "4279742"   "4406746"   "4406793"   "4511461"   "4652363"   "4960525"   "5667686"   "6019825"   "6315837"   "6378600"   "6436298"   "6461499"   "6482246"   "6679454"   "6730222"   "6743359"   "6767459"   "6849182"   77097255"   77141162"   "7147788"   "7169305"   "7175337"   "7179379"   "7182674"   "7192092"   "7438189") FN. OR (7708146") UFFN.	US PCPUB; USPAT; USOCR	OR	ON	2011/07/28 13:07
S51	505	209/725-726.cds.	US PCPUB; USPAT; USOCR; FPPS; EPO; JPO; DERWENT	OR	ON	2011/07/28 13:26
352	2015	494/37,44,25,31.cds	US PGPUB; USPAT; USOOR, FPPS; EPO; JPO; DERWENT	OR	ON	2011/07/28 13:26
353	1801	210/782,784,781,788.ods.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2011/07/28 13:26
<b>3</b> 54	3054	210/512.1,512.2,513.ods.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2011/07/28 13:26
S55	4837	210/512.1,512.2,513,787,788,800 cds.	US PGPUB; USPAT; USOCR, FPPS; EPO; JPO; DERWENT	OR	ON	2011/07/28 13:26
356	7877	(351 352 \$53 354 \$55)	US PCPUB; USPAT; USOCR, FPPS; EPO; JPO; DERWENT	OR	ON	2011/07/28 13:26
357	239	S56 and (outlet same manifold)	US PGPUB; USPAT; USOCR, FPPS; EPO; JPO; DERWENT	OR	ON	2011/07/28 13:26
S58	11332	210/304,360.1,360.2,377,416.1,433.1,437,438,440,441,519,521,522,532.1,533,537,540.cds.	US-PCPUB; USPAT; USOCR; FPFIS; EPO; JPO; DERWENT	OR	ON	2011/07/28 13:46
359	201	210/172.2,172.5.cds	US-PGPUB; USPAT; USOCR, FPRS; EPO; JPO; DERWENT	OR	ON	2011/07/28 13:47

960	11491	SS6 S59	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2011/07/28 13:47
361	2208	S50 and (tangential cyclone cyclonic centrifugal)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2011/07/28 13:49
362	1334	SS1 and (spiral swirl curfing winding corkscrew helical radial helicoid whorled coiled coil helix screw)	US PCPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2011/07/28 13:52
63	5	(*1400622*), URPN	USPAT	OR	ON	2011/07/28 13:56
64	6	(*1648607*), URPN	USPAT	OR	ON	2011/07/28 14:03
365	5	(*4908049" *4299703").pn.	US-PGPUB; USPAT; USOCR, FPRS; EPO; JPO; DERWENT	OR	ON	2011/07/28 14:31
366	17	("2756837"   "2893510"   "3477208"   "3751882"   "3853513"   "3873283"   "3922151"   "3948774"   "4059419"   "4279627"   "4302226"   "4734109").PN. OR ("4908049").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/07/28 14:31
<del>3</del> 67	5	(*2893510*), URPN.	USPAT	OR	ON	2011/07/28 14:32
68	47	("0141632"   "0374960"   "1716305"   "2281254"   "2508817"   "2757960"   "2758874"   "2807450"   "2977963"     "2999644"   "3018847"   "3587972"   "3755990"   "3912469"   "3933450"   "4302226"   "4332292").PN. OR ("4734109").   URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/07/28 14:33
69	3	(*2281254*),UPPN	USPAT	OR	ON	2011/07/28 14:34
 371	18414	\$56 \$60	US-PCPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2011/07/28 14:37
572	491	S71 and spherical	US-PGPUB; USPAT; USOCR, FPRS; EPO; JPO; DERWENT	OR	ON	2011/07/28 14:38
573	635	96/209,208,216,183.cds.	US PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2011/07/28 14:53

S74	77	95/34.cds.	US PGPUB; USPAT; USOCR, FPRS; EPO; JPO; DERWENT	OR	ON	2011/07/28 14:53
575	2293	55/451-452,459.1,459.3.cds.	US PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2011/07/28 14:53
376	31	["2706045"   "3171807"   "3386588"   "3698555"   "3771290"   "4035302"   "4170555"   "4205710"   "4312751"   "4516994"   "4690759"   "4865751"   "4882046"   "4906264"   "4964994"   "4976854"   "4995992"), FN. OR ("5227061"). UPPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/07/28 15:26
577	13	(°3171807''), URPN	USPAT	OR	ON	2011/07/28 15:26
578	2	"7479231",pn.	US PGPUB; USPAT; USOCR, FFRS; EPO; JPO; DERWENT	OR	ON	2011/07/28 15:48
379	12	("2180811"   "3656619"   "3743095"   "3800951"   "4111809"   "4391708"   "4726686"   "4855066"   "4857197"   "4997549"   "6767459").PN. OR ("7479231").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/07/28 15:48
80	2946	S73 S74 S75	US PGPUB; USPAT; USOCR, FFPS; EPO; JPO; DERWENT	OR	ON	2011/07/28 16:28
81	1898	S90 and (tangential cyclone cyclonic centrifugal)	US PCPUB; USPAT; USOCR, FPRS; EPO; JPO; DERWENT	OR	ON	2011/07/28 16:29
82	1309	(S81 and (spiral swirl curling winding confisorew helical radial helicoid whorled coilled coil helix screw)	US PCPUB; USPAT; USOCR, FFRS; EPO; JPO; DERWENT	OR	ON	2011/07/28 16:29
83	1266	\$82 not \$62	US PGPUB; USPAT; USOCR, FFPS; EPO; JPO; DERWENT	OR	ON	2011/07/28 16:29
84	507	(St2 and valve	US PGPUB; USPAT; USOCR, FFPS; EPO; JPO; DERWENT	OR	ON	2011/07/28 16:30
385	29	(*2967618"), URPN	USPAT	OR	ON	2011/07/28 16:41

S86		rotary adj2 slide adj2 valve		OR	2011/07/28
22			USPAT;		22:14
25252			USOOR; FPRS;		
22.5			EPO; JPO;		
22.22			DERWENT		
S87		S86 and separator		OR	2011/07/28
77		·	USPAT;		22:15
7	-		USOOR; FPRS;		
2555			EPO; JPO;		
3	-		DERWENT		

## EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
£8	3257	210/512.1,513,519,521.cds. 166/105.5,357.cds.	USPAT; UPAD	OR	ON	2011/11/21 19:47
L9	1261	8 and (tangential spiral vortex vortical centrifuge centrifgual cyclone cyclonic)	USPAT; UPAD	OR	ON	2011/11/21 19:47
L10	26	9 and classifier	USPAT; UPAD	OR	ON	2011/11/21 19:48
£11	112	9 and spiral near5 (inlet outlet discharge delivery)	USPAT; UPAD	OR	ON	2011/11/21 19:48

11/21/2011 8:01:04 PM

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